

WHAT IS CLAIMED IS:

1. An insulated cryo-pack for sustaining and protecting a material, comprising:  
an inner container for disposing the material therein;  
a plurality of dry ice pellets surrounding the inner container, wherein the dry ice pellets are at least 2 inch thick on all sides of the inner container; and  
an outer container for disposing the inner container and the dry ice pellets therein.
2. The cryo-pack of Claim 1, further comprising a barrier bag filled with the dry ice pellets and wrapping the inner container therein,
3. The cryo-pack of Claim 2, further comprising a lid placed on the barrier bag over the inner container.
4. The cryo-pack of Claim 2, wherein the barrier bag assumes an interior contour of the outer container.
5. The cryo-pack of Claim 2, wherein the barrier bag includes an open top extending over the height of the outer container.
6. The cryo-pack of Claim 5, wherein the open top of the barrier bag are folded over the inner container and secured by a tape.
7. The cryo-pack of Claim 6, wherein the tape has a width of about 2 inches.
8. The cryo-pack of Claim 6, wherein the tape is applied perpendicularly across the folded portion of the barrier bag.
9. The cryo-pack of Claim 2, wherein the barrier bag is punched with a plurality of vent holes.
10. The cryo-pack of Claim 9, wherein the diameter of the vent holes is about ¼ inches.

11. The cryo-pack of Claim 1, wherein the inner and outer containers are made of corrugated fiberboard.
12. The cryo-pack of Claim 11, wherein the inner container has a thickness of about .255 inches.
13. The cryo-pack of Claim 11, wherein the outer container has a thickness of about .255 inches.
14. The cryo-pack of Claim 1, wherein the inner container is sealed by a tape.
15. The cryo-pack of Claim 14, wherein the tape has an H-pattern on a top surface and a bottom surface of the inner container.
16. The cryo-pack of Claim 1, wherein the outer container is secured by a tape.
17. The cryo-pack of Claim 16, wherein the tape has an H-pattern on a bottom surface of the outer container and a T-pattern on a top surface of the outer container.
18. The cryo-pack of Claim 1, further comprising a plurality of foam panels disposed in the outer container and surrounding the inner container.
19. The cryo-pack of Claim 18, wherein each of the foam panels has a thickness of about 2 inches.
20. The cryo-pack of Claim 18, wherein seams between the adjacent foam panels are sealed by tapes.
21. The cryo-pack of Claim 18, further comprising at least one spacer disposed around the inner container within the foam panels, such that a cavity is formed between the inner container and the foam panels.
22. The cryo-pack of Claim 21, wherein the spacer has a thickness of about 2 inches.

23. An insulated cryo-pack for sustaining and protecting a plurality of materials, comprising:

a plurality of internal containers for individually packing the materials therein;  
an inner container for disposing the internal containers therein;  
a layer of dry ice pellets surrounding the inner container, wherein the layer of dry ice pellets is at least 2 inch thick; and  
an outer container for disposing the dry ice pellets and the inner container therein.

24. The cryo-pack of Claim 23, wherein the internal containers are made of corrugated fiberboard with a thickness of about .255 inches.

25. The cryo-pack of Claim 23, further comprising a cellulosic cushion disposed in the inner container for holding the internal containers.

26. The cryo-pack of Claim 23, further comprising a plurality of item reference tags attached to the internal containers for indicating information of the materials contained therein.

27. The cryo-pack of Claim 23, further comprising a plurality of lids disposed on the internal containers.

28. The cryo-pack of Claim 23, further comprising a plurality of holding pads disposed under the internal containers in the inner containers.

29. The cryo-pack of Claim 28, wherein each holding pad comprises a recessed portion conformal to a periphery of a bottom surface of the internal container held thereby.

30. The cryo-pack of Claim 28, further comprising a plurality of upper holding pads disposed on the internal containers in the inner containers.

31. The cryo-pack of Claim 23, further comprising a barrier bag filled with the dry ice pellets and disposed within the outer container for wrapping the inner container therein.

32. The cryo-pack of Claim 31, wherein the barrier bag is punched with a plurality of vent holes.

33. An insulated cryo-pack, comprising:  
an inner container containing at least one material therein;  
an outer container for containing the inner container therein;  
a plurality of foam panels adjacent to an interior surface of the outer containers; and  
at least one spacer disposed around the inner container to immobilize the inner container,  
so as to form a cavity between the inner and outer containers.

34. The cryo-pack of Claim 33, further comprising a plurality of dry ice pellets disposed between the inner and the outer containers.

35. The cryo-pack of Claim 33, wherein the inner and outer containers are made of corrugated fiberboard.

36. The cryo-pack of Claim 33, wherein the spacer has a thickness of about 2 inches.

37. The cryo-pack of Claim 33, wherein the foam panels have a thickness of about 2 inches.

38. The cryo-pack of Claim 33, further comprising a barrier bag disposed between an exterior surface of the inner container and the foam panels.

39. The cryo-pack of Claim 38, wherein the barrier bag is filled with dry ice pellets with a thickness of about 2 inches.